Farhad A Boroumand

List of Publications by Citations

40 papers	592 citations	12 h-index	23 g-index
46 ext. papers	673 ext. citations	3.4 avg, IF	3.85 L-index

#	Paper	IF	Citations
40	Nanoscale conjugated-polymer light-emitting diodes. *Nano Letters*, **2005**, 5, 67-71	11.5	129
39	Direct x-ray detection with conjugated polymer devices. *Applied Physics Letters*, **2007**, 91, 033509	3.4	54
38	Influence of substrates on the structural and morphological properties of RF sputtered ITO thin films for photovoltaic application. *Thin Solid Films*, **2009**, 517, 2324-2327	2.2	43
37	Comparison study of transparent RF-sputtered ITO/AZO and ITO/ZnO bilayers for near UV-OLED applications. *Applied Surface Science*, **2017**, 392, 549-556	6.7	39
36	Large area Ag□TiO2 UV radiation sensor fabricated on a thermally oxidized titanium chip. *Sensors and Actuators A: Physical*, **2012**, 173, 116-121	3.9	38
35	Characterizing Joule Heating in Polymer Light-Emitting Diodes Using a Scanning Thermal Microscope. *Advanced Materials*, **2004**, 16, 252-256	24	36
34	Fabrication of a Room Temperature Ammonia Gas Sensor Based on Polyaniline With N-Doped Graphene Quantum Dots. *IEEE Sensors Journal*, **2018**, 18, 2245-2252	4	30
33	Fabrication and Characterization of an Ammonia Gas Sensor Based on PEDOT-PSS With N-Doped Graphene Quantum Dots Dopant. *IEEE Sensors Journal*, **2016**, 16, 6149-6154	4	27
32	Effect of seed layers on low-temperature, chemical bath deposited ZnO nanorods-based near UV-OLED performance. *Ceramics International*, **2018**, 44, 4937-4945	5.1	22
31	Electrically conductive polyaniline as hole-injection layer for MEH-PPV:BT based polymer light emitting diodes. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2015**, 197, 25-30	3.1	20
30	Imaging Joule heating in a conjugated-polymer light-emitting diode using a scanning thermal microscope. *Applied Physics Letters*, **2004**, 84, 4890-4892	3.4	18
29	Improved performance of photoconductive gain hybrid UV detector by trap state engineering of ZnO nanoparticles. *Journal of Applied Physics*, **2017**, 122, 154501	2.5	17
28	Selective enhancement of intra-chain charge transport to improve ammonia sensing performance in polyaniline layers. *Electronic Materials Letters*, **2016**, 12, 107-112	2.9	11
27	IBIC characterization of charge transport in CdTe:Cl. *Semiconductors*, **2007**, 41, 395-401	0.7	10
26	Comments on "Epitaxially grown GaN thin-film SAW filter with high velocity and low insertion loss". *IEEE Transactions on Electron Devices*, **2006**, 53, 173-176	2.9	10
25	Quality enhancement of AZO thin films at various thicknesses by introducing ITO buffer layer. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 9328-9337	2.1	9
24	Low driving voltage in polymer light-emitting diodes with CdS nanoparticles as an electron transport layer. *Journal of Nanophotonics*, **2015**, 9, 093081	1.1	9

23	High gain observed in X-ray induced currents in synthetic single crystal diamonds. *Physica Status Solidi (A) Applications and Materials Science*, **2007**, 204, 3011-3016	1.6	9
22	Polyfluorene copolymer /Al Schottky junction for UV-A photodetector with relatively high stability and photocurrent density. *Optics Communications*, **2020**, 458, 124809	2	8
21	Low driving voltage characteristics of polyaniline□silica nanocomposites as hole-injection material of organic electroluminescent devices. *Materials Research Bulletin*, **2015**, 72, 29-34	5.1	7
20	Optoelectronic characteristics of MEH-PPV + BT blend thin films in polymer light emitting diodes. *Semiconductor Science and Technology*, **2015**, 30, 065016	1.8	7
19	Flexible PET/ITO electrode array for implantable biomedical applications. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2011**, 2011, 2878-81	0.9	7
18	Quantitative characterization of carrier injection across metal□organic interfaces using Bardeen theory. *Organic Electronics*, **2012**, 13, 905-913	3.5	6
17	Alternative model for injection-limited current into organic solids. *Journal of Photonics for Energy*, **2015**, 5, 057610	1.2	6
16	Use of a New Blue Emitter in Color-Stable, Flexible, Polymeric White Light-Emitting Diodes with a Simple Structure. *Journal of Electronic Materials*, **2015**, 44, 2745-2753	1.9	3
15	Bulk-heterojunction polymer solar cells with polyaniline-silica nanocomposites as an efficient hole-collecting layer. *Journal of Nanophotonics*, **2016**, 10, 016011	1.1	3
14	Synthesis of Carboxylated Graphene Oxide□dS Nanocomposite and Its Application on Photovoltaic Devices. *Bulletin of the Chemical Society of Japan*, **2015**, 88, 684-689	5.1	3
13	Observations of backgate impedance dispersion in GaAs isolation structures. *IEEE Transactions on Electron Devices*, **2001**, 48, 1850-1858	2.9	2
12	Analytical transmission line model for complex dielectric constant measurement of thin substrates using T-resonator method. *IET Microwaves, Antennas and Propagation*, **2020**, 14, 2027-2034	1.6	2
11	Electrical and Environmental Degradation Causes and Effects in Polyfluorene-Based Polymer Light-Emitting Diodes. *Journal of Electronic Materials*, **2020**, 49, 3645-3651	1.9	1
10	Atomic and electronic structures of ZnO nanowires and nanotubes: A first principles study **2016**,		1
9	Environmental UV-A Level Monitoring Using an Ag-TiO2 Schottky Diode. *Key Engineering Materials*, **2013**, 543, 113-116	0.4	1
8	Design, fabrication, and test of flexible thin-film microelectrode arrays for neural interfaces **2017**,		1
7	A comprehensive model of backgate impedance dispersions in GaAs isolation structures. *IEEE Transactions on Electron Devices*, **2001**, 48, 1859-1869	2.9	1
6	Very slow charge trapping and release in ion implanted GaAs [MESFETs]. *IEEE Transactions on Electron Devices*, **2000**, 47, 512-516	2.9	1

5	Wireless, miniaturized, semi-implantable electrocorticography microsystem validated in vivo. *Scientific Reports*, **2020**, 10, 21261	4.9	1
4	Experimental and density functional theory computational studies on highly sensitive ethanol gas sensor based on Au-decorated ZnO nanoparticles. *Thin Solid Films*, **2022**, 741, 139014	2.2	0
3	A Novel Material for Chemical Sensor Applications: Oxidized MEH-PPV. *Key Engineering Materials*, **2015**, 644, 12-15	0.4	
2	Silver-Rutile UV Sensor Fabricated on Thermally Oxidized Titanium Foil . *Key Engineering Materials*, **2011**, 495, 18-22	0.4	
1	Complex Dielectric Constant Extraction of Substrate Materials Using Cross-Resonator Method. *IEEE Transactions on Instrumentation and Measurement*, **2022**, 71, 1-9	5.2	